

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:  
**March 2002**

**Gray Davis**  
Governor  
State of California

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Secretary for Resources  
The Resources Agency

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Director  
Department of Water Resource

State of California  
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The Resources Agency  
**MARY D. NICHOLS, Secretary for Resources**

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The organization shown above represents staff and positions relevant to this report as of publication date on August 20, 2002. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following highlights are activities or actions that impacted State Water Project operations during the month of March 2002.

Statewide precipitation was 85 percent of average for the 2001-2002 water year as of March 31. Statewide runoff was 80 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: "[http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html)".

Total storage in major SWP reservoirs on March 31 was about 4.11 MAF, compared with about 3.68 MAF at this time in 2001. Average storage in the major SWP reservoirs on March 31 was about 4.35 MAF. End of month storage at Lake Oroville was about 2.41 MAF as compared to 2.05 MAF last year. The State's share of San Luis Reservoir storage was about 1.07 MAF, as compared with 997 TAF at this time last year. End of month combined storage in our southern reservoirs was about 625 TAF, compared with about 639 TAF at this time last year.

Through March, SWP water deliveries for 2002 were about 532 TAF. This is a combination of project, transfer, and exchange waters. This is 158 TAF more than that delivered during the same period in 2001.

Excess conditions existed all month, and the percent-of-inflow diverted standard (E/I ratio) controlled operations from March 1 through March 22.

DWR increased the 2002 allocation of entitlement water for long-term SWP contractors on March 22 to 55 percent, and again on March 28 to 60 percent.

San Luis Reservoir physically filled on March 23, 2002. The Environmental Water Account had 94 TAF in San Luis, so SWP exports from the south Delta were effectively limited to direct demand, dropping from 5100 cfs on March 22 to 1200 cfs on March 23. By agreement, once the reservoir was physically full, the EWA portion was converted to SWP share each day by the amount of water that could have been pumped into the reservoir if the EWA portion wasn't there. Once the EWA portion was reduced to zero, the Project portion was considered full and delivery of interruptible water could begin. Rather than wait for this process, the water contractors and the EWA management agencies agreed that the contractors would take over the converted EWA portion but return half of the amount to the EWA at a later date. This allowed the contractors to begin interruptible deliveries sooner than otherwise and the EWA to eventually retain some water in San Luis that they would otherwise have lost. The agreement became effective on March 30, with SWP exports rising to 3300 cfs on that day and to 5300 cfs on March 31.

The filling of San Luis Reservoir also instigated a daily share exchange between the SWP and CVP. For accounting purposes, the EWA portion was considered part of the SWP share of San Luis, so it appeared that the SWP was encroached on the CVP share. Once the reservoir filled, the SWP was obliged to make room for any water the CVP wanted to pump into San Luis (up to the total amount of the encroachment). Rather than physically spill the SWP water and pump the CVP water, a total of 33,300 AF was exchanged at O'Neill Forebay through the end of the month.

# Table 1. Antelope Lake

## Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

March 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow 1/
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/	
				Stream-flow Maint.	Water Supply Contract	Water Right				
Feb 28	4994.69	16,344								
1	4994.74	16,383	39	5	0	0	0			
2	4994.79	16,421	38	5	0	0	0			
3	4994.85	16,468	47	5	0	0	0			
4	4994.92	16,522	54	5	0	0	0			
5	4994.99	16,576	54	5	0	0	0			
6	4995.15	16,701	125	5	0	0	0			
7	4995.29	16,810	109	5	0	0	0			
8	4995.36	16,865	55	5	0	0	0			
9	4995.45	16,936	71	5	0	0	0			
10	4995.54	17,007	71	5	0	0	0			
11	4995.61	17,062	55	5	0	0	0			
12	4995.71	17,141	79	5	0	0	0			
13	4995.79	17,205	64	5	0	0	0			
14	4995.86	17,260	55	5	0	0	0			
15	4995.92	17,308	48	5	0	0	0			
16	4995.99	17,364	56	5	0	0	0			
17	4996.05	17,412	48	5	0	0	0			
18	4996.10	17,452	40	5	0	0	0			
19	4996.15	17,492	40	5	0	0	0			
20	4996.22	17,548	56	5	0	0	0			
21	4996.30	17,613	65	5	0	0	0			
22	4996.40	17,693	80	5	0	0	0			
23	4996.51	17,782	89	5	0	0	0			
24	4996.62	17,871	89	5	0	0	0			
25	4996.71	17,945	74	5	0	0	0			
26	4996.81	18,026	81	5	0	0	0			
27	4996.94	18,133	107	5	0	0	0			
28	4997.08	18,248	115	5	0	0	0			
29	4997.26	18,396	148	5	0	0	0			
30	4997.46	18,562	166	5	0	0	0			
31	4997.69	18,754	192	5	0	0	0			
Total cfs-days			---	155	0	0	0	48	203	1,418
Total ac-ft			2,410	307	0	0	0	96	403	2,813

1/ Values not available on a daily basis.

## Table 2. Frenchman Lake

### Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

March 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		Total Outflow 1/
				Stream-flow Maint.	Water Supply Contract	Water Right				
Feb 28	5569.41	30,723								
1	5569.44	30,756	33	2	0	0	0			
2	5569.47	30,789	33	2	0	0	0			
3	5569.50	30,822	33	2	0	0	0			
4	5569.54	30,865	43	2	0	0	0			
5	5569.59	30,920	55	2	0	0	0			
6	5569.70	31,040	120	2	0	0	0			
7	5569.80	31,150	110	2	0	0	0			
8	5569.85	31,205	55	2	0	0	0			
9	5569.86	31,216	11	2	0	0	0			
10	5569.93	31,293	77	2	0	0	0			
11	5569.98	31,348	55	2	0	0	0			
12	5570.04	31,414	66	2	0	0	0			
13	5570.12	31,502	88	2	0	0	0			
14	5570.17	31,558	56	2	0	0	0			
15	5570.20	31,591	33	2	0	0	0			
16	5570.23	31,624	33	2	0	0	0			
17	5570.27	31,669	45	2	0	0	0			
18	5570.29	31,691	22	2	0	0	0			
19	5570.31	31,713	22	2	0	0	0			
20	5570.36	31,769	56	2	0	0	0			
21	5570.39	31,802	33	2	0	0	0			
22	5570.45	31,869	67	2	0	0	0			
23	5570.53	31,958	89	2	0	0	0			
24	5570.58	32,014	56	2	0	0	0			
25	5570.62	32,059	45	2	0	0	0			
26	5570.67	32,115	56	2	0	0	0			
27	5570.72	32,171	56	2	0	0	0			
28	5570.77	32,227	56	2	0	0	0			
29	5570.84	32,305	78	2	0	0	0			
30	5570.92	32,395	90	2	0	0	0			
31	5570.99	32,474	79	2	0	0	0			
Total cfs-days			---	62	0	0	0	67	129	1,012
Total ac-ft			1,751	123	0	0	0	133	256	2,007

1/ Values not available on a daily basis.

### Table 3. Lake Davis

#### Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

March 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		Total Outflow 1/
				Stream-flow Maint.	Water Supply Contract	Water Right				
Feb 28	5764.17	46,845								
1	5764.17	46,845	0	10	0	0	0			
2	5764.17	46,845	0	10	0	0	0			
3	5764.17	46,845	0	10	0	0	0			
4	5764.19	46,903	58	10	0	0	0			
5	5764.22	46,990	87	10	0	0	0			
6	5764.35	47,368	378	10	0	0	0			
7	5764.43	47,602	234	10	0	0	0			
8	5764.45	47,660	58	10	0	0	0			
9	5764.47	47,719	59	10	0	0	0			
10	5764.47	47,719	0	10	0	0	0			
11	5764.47	47,719	0	10	0	0	0			
12	5764.47	47,719	0	10	0	0	0			
13	5764.47	47,719	0	10	0	0	0			
14	5764.47	47,719	0	10	0	0	0			
15	5764.47	47,719	0	10	0	0	0			
16	5764.47	47,719	0	10	0	0	0			
17	5764.47	47,719	0	10	0	0	0			
18	5764.64	48,218	499	10	0	0	0			
19	5764.66	48,277	59	10	0	0	0			
20	5764.69	48,366	89	10	0	0	0			
21	5764.71	48,425	59	10	0	0	0			
22	5764.75	48,543	118	10	0	0	0			
23	5764.79	48,662	119	10	0	0	0			
24	5764.83	48,780	118	10	0	0	0			
25	5764.86	48,869	89	10	0	0	0			
26	5764.86	48,869	0	10	0	0	0			
27	5764.86	48,869	0	10	0	0	0			
28	5764.86	48,869	0	10	0	0	0			
29	5764.86	48,869	0	10	0	0	0			
30	5764.86	48,869	0	10	0	0	0			
31	5765.35	50,336	1,467	10	0	0	0			
Total cfs-days			---	310	0	0	0	178	488	2,248
Total ac-ft			3,491	615	0	0	0	354	969	4,460

1/ Values not available on a daily basis.

## Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

March 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Feb 28	793.58	2,120,159								
1	794.21	2,127,110	6,951	1,455	0	185	0	1,640	0	8,591
2	794.92	2,134,962	7,852	398	0	179	0	577	0	8,429
3	795.59	2,142,390	7,428	82	0	138	0	220	0	7,648
4	796.20	2,149,170	6,780	654	0	102	0	756	0	7,536
5	796.70	2,154,738	5,568	1,961	0	66	0	2,027	0	7,595
6	797.86	2,167,694	12,956	2,527	0	0	0	2,527	0	15,483
7	799.44	2,185,431	17,737	2,359	0	18	0	2,377	0	20,114
8	800.69	2,199,535	14,104	2,603	0	43	0	2,646	0	16,750
9	801.97	2,214,044	14,509	85	0	43	0	128	0	14,637
10	803.20	2,228,049	14,005	1,886	0	25	0	1,911	0	15,916
11	804.14	2,238,794	10,745	2,600	0	56	0	2,656	0	13,401
12	805.00	2,248,656	9,862	2,798	0	68	0	2,866	0	12,728
13	806.01	2,260,277	11,621	2,459	0	50	0	2,509	0	14,130
14	806.69	2,268,125	7,848	3,855	0	93	0	3,948	0	11,796
15	807.33	2,275,528	7,403	4,230	0	75	0	4,305	0	11,708
16	808.11	2,284,574	9,046	1,014	0	62	0	1,076	0	10,122
17	808.88	2,293,528	8,954	943	0	101	0	1,044	0	9,998
18	809.34	2,298,889	5,361	3,899	0	63	0	3,962	0	9,323
19	809.96	2,306,128	7,239	2,529	0	101	0	2,630	0	9,869
20	810.50	2,312,447	6,319	2,970	0	82	0	3,052	0	9,371
21	810.81	2,316,079	3,632	5,002	0	95	0	5,097	0	8,729
22	811.45	2,323,591	7,512	3,002	0	95	0	3,097	0	10,609
23	812.49	2,335,834	12,243	339	0	19	0	358	176	12,425
24	813.68	2,349,898	14,064	79	0	32	0	111	3,125	11,050
25	814.34	2,357,723	7,825	6,775	0	51	0	6,826	2,887	11,764
26	814.90	2,364,377	6,654	5,207	0	77	0	5,284	1,285	10,653
27	815.43	2,370,687	6,310	4,655	0	148	0	4,803	1,063	10,050
28	816.03	2,377,843	7,156	4,402	0	168	0	4,570	1,272	10,454
29	816.50	2,383,460	5,617	5,678	0	246	0	5,924	1,902	9,639
30	817.42	2,394,480	11,020	3,515	0	175	0	3,690	1,265	13,445
31	819.11	2,414,816	20,336	92	0	163	0	255	8,361	12,230
<b>Total</b>			<b>294,657</b>	<b>80,053</b>	<b>0</b>	<b>2,819</b>	<b>0</b>	<b>82,872</b>	<b>21,336</b>	<b>356,193</b>

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal  
Daily Operation**

Capacity: 25,120 ac-ft

(in acre-feet except as noted)

**March 2002**

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)	
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback		
Feb 28	25,045											
1	24,946	-99	1,455	508	0	836	0	1	1,245	0	20	
2	24,511	-435	398	516	0	107	0	1	1,239	0	-2	
3	23,757	-754	82	502	0	131	0	1	1,239	0	33	
4	23,576	-181	654	504	0	115	0	1	1,231	0	8	
5	24,553	977	1,961	512	0	265	0	1	1,239	0	9	
6	24,280	-273	2,527	509	0	2,279	0	1	1,247	0	218	
7	24,512	232	2,359	553	0	1,793	0	1	1,245	0	359	
8	24,472	-40	2,603	468	0	2,063	0	1	1,245	0	198	
9	23,763	-709	85	509	0	118	0	1	1,237	0	53	
10	24,335	572	1,886	506	0	905	0	1	1,247	0	333	
11	24,717	382	2,600	509	0	1,538	0	1	1,241	0	53	
12	24,459	-258	2,798	509	0	2,417	0	1	1,237	0	90	
13	24,691	232	2,459	509	0	1,556	0	1	1,243	0	64	
14	24,362	-329	3,855	510	0	3,526	0	1	1,241	0	74	
15	24,516	154	4,230	528	0	3,506	0	1	1,245	0	148	
16	24,054	-462	1,014	492	0	701	0	1	1,243	0	-23	
17	23,205	-849	943	506	0	681	0	1	1,241	0	-375	
18	23,876	671	3,899	536	0	3,300	0	1	1,241	0	778	
19	23,992	116	2,529	482	0	1,850	0	1	1,241	0	197	
20	24,074	82	2,970	508	0	2,263	0	1	1,245	0	113	
21	23,605	-469	5,002	569	0	4,803	0	1	1,255	0	19	
22	25,017	1,412	3,002	444	0	966	0	1	1,263	0	196	
23	24,674	-343	339	510	324	0	0	1	1,271	176	-68	
24	24,470	-204	79	510	3,294	0	0	1	1,271	3,125	310	
25	23,973	-497	6,775	504	3,374	7,373	0	1	1,267	2,887	378	
26	23,895	-78	5,207	508	1,917	5,297	0	1	1,265	1,285	138	
27	23,874	-21	4,655	508	2,073	5,106	0	1	1,265	1,063	178	
28	24,053	179	4,402	510	2,116	4,462	0	1	1,259	1,272	145	
29	23,674	-379	5,678	508	2,117	5,662	0	1	1,257	1,902	140	
30	24,881	1,207	3,515	514	2,163	2,494	0	2	1,257	1,265	33	
31	23,908	-973	92	506	7,957	0	1	2	1,257	8,361	93	
Total		-1,137	80,053	15,767	25,335	66,113	1	33	38,719	21,336	3,910	

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of generation and bypass flows through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

**March 2002**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Feb 28	128.74	28,093											
1	128.61	27,689	-404	836	0	0	0	0	1,155	0	-85	2,400	
2	128.27	26,646	-1,043	107	0	0	0	0	1,150	0	0	2,389	
3	127.93	25,621	-1,025	131	0	0	0	0	1,156	0	0	2,395	
4	127.59	24,616	-1,005	115	0	0	0	0	1,152	0	32	2,383	
5	127.31	23,803	-813	265	0	0	0	0	1,163	0	85	2,402	
6	127.73	25,028	1,225	2,279	0	0	0	0	1,165	0	111	2,412	
7	127.82	25,294	266	1,793	0	0	0	0	1,151	0	-376	2,396	
8	128.09	26,101	807	2,063	0	0	0	0	1,175	0	-81	2,420	
9	127.77	25,146	-955	118	0	0	0	0	1,164	0	91	2,401	
10	127.77	25,146	0	905	0	0	0	0	1,155	0	250	2,402	
11	127.88	25,472	326	1,538	0	0	0	0	1,157	0	-55	2,398	
12	128.27	26,646	1,174	2,417	0	0	0	0	1,160	0	-83	2,397	
13	128.41	27,073	427	1,556	0	0	0	0	1,166	0	37	2,409	
14	129.15	29,385	2,312	3,526	0	0	0	0	1,170	0	-44	2,411	
15	129.80	31,490	2,105	3,506	0	0	0	0	1,166	0	-235	2,411	
16	129.63	30,933	-557	701	0	0	0	0	1,150	0	-108	2,393	
17	129.40	30,187	-746	681	0	0	0	0	1,150	0	-277	2,391	
18	129.99	32,118	1,931	3,300	0	0	0	0	1,157	0	-212	2,398	
19	130.18	32,752	634	1,850	0	0	0	0	1,148	0	-68	2,389	
20	130.46	33,697	945	2,263	0	0	0	0	1,152	0	-166	2,397	
21	131.44	37,104	3,407	4,803	0	0	0	0	1,162	0	-234	2,417	
22	131.41	36,998	-106	966	0	0	0	0	1,168	0	96	2,431	
23	131.08	35,835	-1,163	0	0	0	0	0	1,142	324	303	2,413	
24	129.73	31,260	-4,575	0	0	0	0	0	1,146	3,294	-135	2,417	
25	130.44	33,629	2,369	7,373	0	0	0	0	1,160	3,374	-470	2,427	
26	131.09	35,870	2,241	5,297	0	0	0	0	1,160	1,917	21	2,425	
27	131.59	37,639	1,769	5,106	0	0	0	0	1,148	2,073	-116	2,413	
28	131.84	38,539	900	4,462	0	0	0	0	1,157	2,116	-289	2,416	
29	132.47	40,850	2,311	5,662	0	0	0	0	1,160	2,117	-74	2,417	
30	132.24	39,999	-851	2,494	0	0	0	0	1,157	2,163	-25	2,414	
31	129.67	31,064	-8,935	0	0	0	0	0	1,153	7,957	175	2,410	
<b>Total</b>			<b>2,971</b>	<b>66,113</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,875</b>	<b>25,335</b>	<b>-1,932</b>	<b>74,594</b>	

1/ Includes Bypass flows at Thermalito.

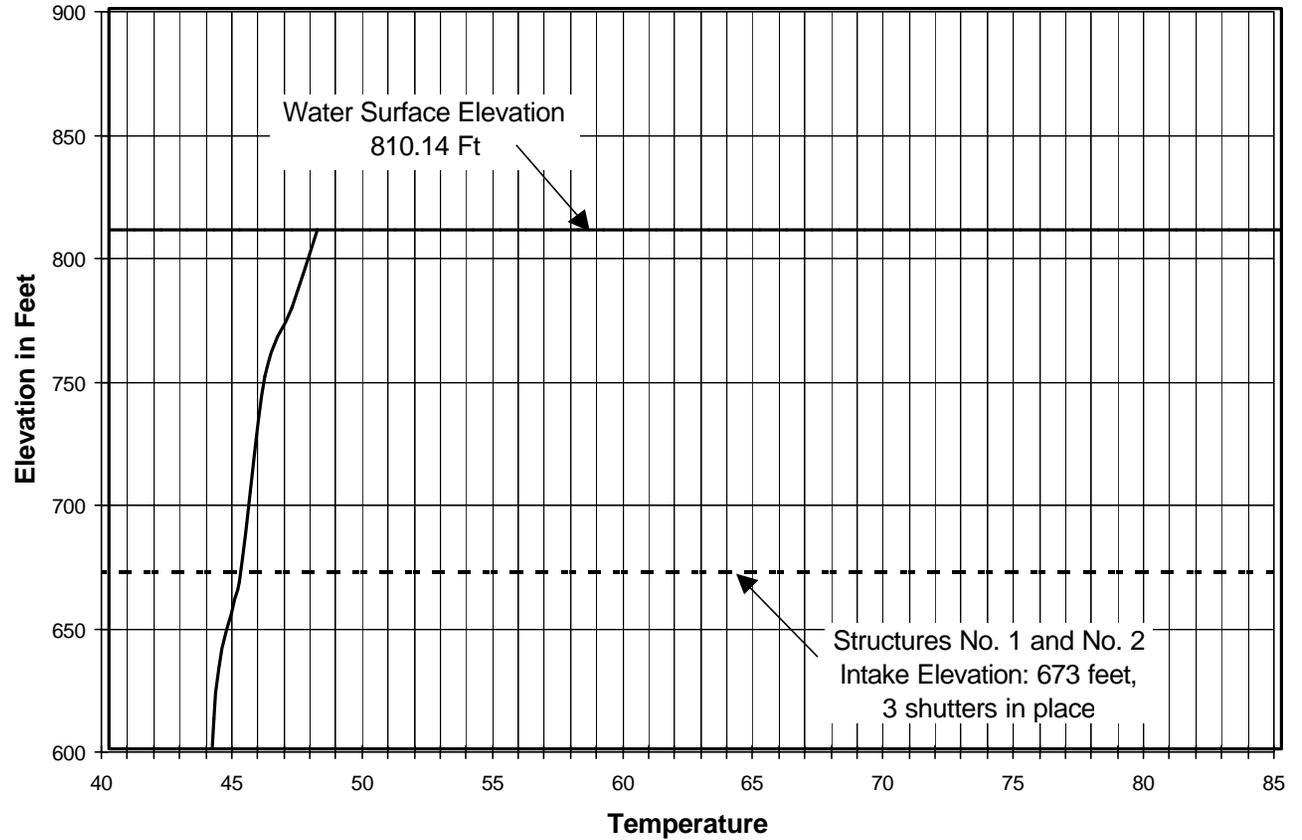
2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

**Table 7. Oroville-Thermalito Complex**  
 Water Temperature Data  
 (in degrees Fahrenheit)  
**March 2002**

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	53	49
2	52	48
3	53	48
4	53	48
5	53	48
6	53	48
7	52	48
8	52	47
9	51	47
10	51	47
11	52	47
12	52	47
13	53	47
14	53	47
15	52	47
16	52	47
17	52	47
18	51	47
19	52	47
20	53	47
21	54	47
22	53	47
23	53	47
24	54	48
25	55	49
26	56	48
27	57	48
28	58	48
29	59	48
30	59	48
31	59	51

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**Lake Oroville Temperature Profile on March 20, 2002**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

**March 2002**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement			Permit	Article 21 Water	Extended Carryover
	No.	Structure	Mile			M & I	Benicia	Vallejo			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	2,437						
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis Turnout	140				25	115	
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	0						
				Solano County Water Agency Fairfield / Vacaville 42"	0						
2		17.00	Solano County Water Agency Central Solano	Stub							
3A		Cordelia Forebay	21.23								
		Cordelia Pumping Plant & Cordelia Spillway	21.30		2,230						
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	545			270	275		
Solano County Water Agency Benicia	798				398	400					
3B	2	Cordelia Surge Tank	23.33								
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	0						
				Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	758				58	700	
			27.60	Napa County Flood Control & WCD American Canyon 1	129				129		

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

**March 2002**

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	0	2	7,983	7,983	0	0	0	97
2	0	0	8,977	8,977	0	0	0	100
3	22	19	8,591	8,591	0	0	0	98
4	24	20	8,583	8,583	70	0	0	100
5	53	46	8,184	8,184	74	0	0	65
6	62	55	7,786	7,786	58	0	0	64
7	63	54	8,574	8,574	62	0	0	61
8	65	58	7,929	7,929	75	0	0	62
9	65	61	8,074	8,074	70	0	0	57
10	62	61	8,324	8,324	92	0	0	41
11	67	63	8,039	8,039	64	0	0	8
12	75	62	8,941	8,941	48	0	0	0
13	72	61	9,035	9,035	55	0	0	0
14	69	62	10,078	10,078	62	0	0	26
15	67	57	9,833	9,833	80	0	0	37
16	70	64	9,994	9,994	88	0	0	0
17	62	62	10,944	10,944	77	0	0	0
18	62	58	10,174	10,174	134	0	0	0
19	73	61	10,934	10,934	169	0	0	0
20	87	81	10,448	10,448	240	0	0	0
21	114	103	10,483	10,483	158	0	0	0
22	92	82	10,118	10,118	290	0	0	0
23	93	93	2,332	2,332	294	0	0	0
24	109	106	3,306	3,306	302	0	0	0
25	124	118	2,383	2,383	309	0	0	0
26	128	115	2,465	2,465	307	0	0	0
27	134	120	3,297	3,297	329	0	0	0
28	135	119	3,081	3,081	328	0	0	0
29	135	126	3,360	3,360	344	0	0	0
30	127	120	6,537	6,537	382	0	0	0
31	126	121	10,517	10,517	369	0	0	0
<b>Total</b>	<b>2,437</b>	<b>2,230</b>	<b>239,304</b>	<b>239,304</b>	<b>4,930</b>	<b>0</b>	<b>0</b>	<b>816</b>

**Table 10. Clifton Court Forebay**  
Daily Operation of Gates

**March 2002**

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	---	1:27	4:27	12:10	23:00	---			7,918
2	---	2:10	5:10	12:35					7,922
3	0:30	6:52	11:00	15:41	18:41	22:00			8,312
4	1:00	9:40	11:00	15:48	20:10	22:55			8,920
5	1:00	8:35	11:40	14:54					8,329
6	0:20	9:44	12:40	14:40					8,325
7	0:01	11:04							8,260
8	0:12	12:23	17:00	18:48					8,252
9	1:05	13:25							8,096
10	1:30	9:20	11:45	14:14	16:35	18:45			8,108
11	1:53	10:30	12:45	14:59					8,126
12	2:28	10:50	13:21	16:40	18:10	19:26			8,876
13	3:01	11:06	14:55	16:12	19:30	22:00			8,842
14	0:05	0:29	3:29	12:06	15:12	16:43	19:15	20:58	9,963
15	0:01	0:57	3:57	11:37	16:09	17:16	20:00	---	9,899
16	---	1:26	4:26	12:18	16:52	19:58			9,915
17	0:01	5:51	8:50	14:27	17:27	22:47			10,908
18	0:38	6:20	9:41	14:30	18:17	23:33			10,296
19	0:12	6:50	9:50	15:05	19:20	---			10,507
20	---	7:29	10:30	15:22	20:30	---			10,505
21	---	8:25	11:49	15:38	22:00	23:45			10,504
22	0:45	9:54	12:31	14:54					10,508
23	1:00	5:30							3,818
24	1:30	7:47							3,746
25	0:55	7:45	15:55	18:30					3,526
26	3:22	7:38	16:15	17:53					2,565
27	4:10	8:02	17:46	19:26					3,356
28	4:24	8:40	18:55	19:50					3,354
29	5:10	9:00	19:38	21:15					3,372
30	8:00	10:40	20:55	23:40					6,345
31	3:46	4:48	8:34	13:50	17:30	---			8,254
Total inflow for the month in AF:									239,627



**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**March 2002**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending					Entitle-ment	Ex-change	Local	Article 21 Water	Recreation
	No.	Structure	Mile							
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	4,930	192		26	397	
			3.17	Granite - Vasco Rd. (Temp.)	0					
			3.18	Oakland Scavenger Zone 7	0					
		Check No. 1	3.91							
	2	Check No. 2	5.21							
2	3		7.21	Zone 7 Altamont	0					
		Check No. 3	9.49	Zone 7 Patterson Stored Exchange	0					
4	4	Check No. 4	10.68							
		Check No. 5	12.29							
	6		13.55	Zone 7 Wente #1	26					
			14.16	Zone 7 Wente #2	0					
			14.31	Ising Project Water	0					
		Check No. 6	14.65							
	7		14.78	Zone 7 Arroyo Mocho	667					
		Check No. 7	16.38							
	5	8		16.57	Zone 7 Wente #3	0				
				16.69	Zone 7 Norman Nursery	0				
			16.70	Zone 7 Concannon Project Water	0					
Del Valle Branch Pipeline Junction			18.63	(Pumped into Lake Del Valle)	0					
				(Flow into South Bay Aqueduct)	816					
6	8	Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Project Water	0					
				Arroyo Valle #1 & #2 Inflow Released	271					
				Lake Del Valle Recreation	4					
				Zone 7 Wente #5 - Project Water	15					
7	8	La Costa Tunnel	22.50	ACWD Vallecitos Project Water	0					
			25.97	City of San Francisco San Antonio	0					
8	8	Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water:	1,130					
				Inflow Released	138					
9	8	Santa Clara Pipeline	35.86	S.C.V.W.D. Meter	1,949					
						15	271	410		
						999	131	138	273	
						1,612	337			

**Table 13. Lake Del Valle**  
Daily Operation

Capacity: 77,106 ac-ft

(in acre-feet except as noted)

**March 2002**

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)	
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow		
Feb 28	694.69	34,303										
1	694.55	34,213	-90	15	0	0	98	0	7	105	0.00	
2	694.40	34,117	-96	12	0	0	101	0	7	108	0.00	
3	694.28	34,041	-76	28	0	0	99	0	5	104	0.00	
4	694.11	33,932	-109	-4	0	0	100	0	5	105	0.00	
5	694.01	33,869	-63	8	0	0	65	0	6	71	0.00	
6	693.98	33,850	-19	52	0	0	64	0	7	71	0.13	
7	693.95	33,830	-20	42	0	0	61	0	1	62	0.45	
8	693.89	33,792	-38	28	0	0	62	0	4	66	0.02	
9	693.82	33,748	-44	17	0	0	57	0	4	61	0.00	
10	693.79	33,729	-19	26	0	0	41	0	4	45	0.28	
11	693.87	33,780	51	62	0	0	8	0	3	11	0.02	
12	693.92	33,811	31	35	0	0	0	0	4	4	0.00	
13	693.93	33,818	7	12	0	0	0	0	5	5	0.00	
14	693.94	33,824	6	38	0	0	26	0	6	32	0.00	
15	693.88	33,786	-38	4	0	0	37	0	5	42	0.00	
16	693.90	33,799	13	18	0	0	0	0	5	5	0.00	
17	693.99	33,856	57	63	0	0	0	0	6	6	0.39	
18	694.06	33,900	44	50	0	0	0	0	6	6	0.15	
19	694.10	33,926	26	28	0	0	0	0	2	2	0.03	
20	694.11	33,932	6	11	0	0	0	0	5	5	0.00	
21	694.15	33,958	26	32	0	0	0	0	6	6	0.00	
22	694.19	33,983	25	31	0	0	0	0	6	6	0.00	
23	694.35	34,085	102	105	0	0	0	0	3	3	0.53	
24	694.44	34,143	58	61	0	0	0	0	3	3	0.03	
25	694.59	34,239	96	101	0	0	0	0	5	5	0.00	
26	694.69	34,303	64	68	0	0	0	0	4	4	0.00	
27	694.74	34,335	32	37	0	0	0	0	5	5	0.00	
28	694.76	34,348	13	21	0	0	0	1	7	8	0.00	
29	694.80	34,374	26	38	0	0	0	1	11	12	0.00	
30	694.83	34,393	19	25	0	0	0	1	5	6	0.00	
31	694.86	34,412	19	28	0	0	0	1	8	9	0.00	
<b>Total</b>			<b>109</b>	<b>1,092</b>	<b>0</b>	<b>0</b>	<b>819</b>	<b>4</b>	<b>160</b>	<b>983</b>	<b>2.03</b>	

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1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

March 2002

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/	
Feb 28	219.40	41,605										
1	219.30	41,349	-256	0	1,397	871	3,712	0	1,790	4,564	14	259
2	218.84	40,179	-1,170	0	1,490	0	4,391	0	1,014	5,299	15	-143
3	219.82	42,686	2,507	0	1,644	0	4,012	0	0	4,421	13	42
4	221.07	45,944	3,258	0	1,789	1,042	4,027	0	539	4,695	14	33
5	222.76	50,406	4,462	0	1,958	866	3,880	0	758	3,885	15	204
6	222.00	48,385	-2,021	0	2,246	0	3,564	0	2,325	4,238	14	-252
7	222.37	49,368	983	0	2,119	549	4,067	0	3,284	2,852	10	-93
8	221.88	48,071	-1,297	0	2,106	0	3,842	0	2,739	3,884	10	31
9	222.68	50,193	2,122	0	2,208	0	4,165	0	1,722	3,752	13	184
10	222.21	48,942	-1,251	0	2,474	0	3,946	0	2,014	4,964	15	-58
11	222.41	49,474	532	0	2,590	0	3,511	0	2,297	3,657	13	134
12	223.41	52,142	2,668	0	2,470	0	4,356	0	2,495	3,045	15	74
13	222.44	49,554	-2,588	0	2,358	0	4,397	0	4,948	2,880	14	-218
14	221.47	46,994	-2,560	0	2,331	0	4,765	0	4,915	3,574	12	114
15	221.64	47,441	447	0	2,362	0	4,930	0	3,535	3,742	14	224
16	222.38	49,394	1,953	0	2,588	0	4,721	0	1,540	4,908	13	137
17	220.62	44,766	-4,628	0	2,792	0	5,380	0	6,016	4,834	13	358
18	221.14	46,128	1,362	0	2,863	0	4,804	0	3,246	3,634	11	-89
19	221.57	47,257	1,129	0	2,932	0	4,937	0	3,660	3,325	14	-301
20	221.09	45,996	-1,261	0	3,034	0	5,005	0	5,408	3,376	12	121
21	221.91	48,150	2,154	0	2,925	0	5,270	0	4,499	2,838	14	242
22	222.72	50,299	2,149	0	2,834	0	4,705	0	1,986	4,882	15	427
23	222.45	49,580	-719	0	2,891	0	1,155	0	0	4,370	13	-25
24	222.55	49,847	267	0	3,035	0	1,531	0	0	4,376	13	-42
25	222.87	50,699	852	0	3,037	0	703	0	0	3,355	14	59
26	222.66	50,139	-560	0	2,888	0	783	0	0	4,057	13	117
27	222.15	48,783	-1,356	0	2,834	0	1,496	0	639	4,204	14	-157
28	221.55	47,204	-1,579	0	2,805	0	1,303	0	0	4,731	14	-159
29	221.35	46,679	-525	0	2,752	0	1,485	0	0	4,534	15	47
30	221.07	45,944	-735	0	2,765	0	2,800	0	0	5,839	11	-86
31	221.52	47,125	1,181	0	2,797	0	4,941	0	0	7,140	12	9
Total			5,520	0	77,314	3,328	112,584	0	61,369	129,855	412	1,193
Mean cfs			- - -	0	2,494	107	3,632	0	1,980	4,189	13	38
Acre-feet			5,520	0	153,351	6,598	223,309	0	121,724	257,568	818	2,372

1/ Pump-in located at Mile 79.67R.

2/ Includes 84 AF delivered to DFG at O'Neill Forebay, 3 AF to Parks and Recreation, 1 AF to P&R Cattle, and 730 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

March 2002

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

Capacity: 2,027,835 ac-ft

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del. 2/	
Feb 28	534.86	1,925,324						
1	534.95	1,926,448	1,124	1,790	871	211	0	-141
2	535.06	1,927,821	1,373	1,014	0	236	0	-86
3	535.05	1,927,696	-125	0	0	247	0	184
4	534.92	1,926,073	-1,623	539	1,042	259	0	-56
5	534.85	1,925,199	-874	758	866	248	0	-85
6	535.17	1,929,194	3,995	2,325	0	234	0	-77
7	535.56	1,934,067	4,873	3,284	549	238	0	-40
8	535.95	1,938,944	4,877	2,739	0	223	0	-57
9	536.18	1,941,822	2,878	1,722	0	222	0	-49
10	536.45	1,945,202	3,380	2,014	0	233	0	-77
11	536.77	1,949,212	4,010	2,297	0	235	0	-40
12	537.12	1,953,600	4,388	2,495	0	221	0	-62
13	537.85	1,962,764	9,164	4,948	0	226	0	-102
14	538.57	1,971,817	9,053	4,915	0	240	0	-111
15	539.07	1,978,112	6,295	3,535	0	239	0	-122
16	539.26	1,980,506	2,394	1,540	0	231	0	-102
17	540.16	1,991,860	11,354	6,016	0	223	0	-69
18	540.63	1,997,798	5,938	3,246	0	215	0	-37
19	541.16	2,004,502	6,704	3,660	0	198	0	-82
20	541.97	2,014,762	10,260	5,408	0	165	0	-70
21	542.63	2,023,136	8,374	4,499	0	199	0	-78
22	542.90	2,026,565	3,429	1,986	0	159	0	-98
23	542.90	2,026,565	0	0	0	60	0	60
24	542.90	2,026,565	0	0	0	0	0	0
25	542.90	2,026,565	0	0	0	0	0	0
26	542.92	2,026,819	254	0	0	0	0	128
27	543.01	2,027,963	1,144	639	0	0	0	-62
28	543.01	2,027,963	0	0	0	0	0	0
29	543.01	2,027,963	0	0	0	6	0	6
30	543.01	2,027,963	0	0	0	17	0	17
31	543.01	2,027,963	0	0	0	8	0	8
Total			102,639	61,369	3,328	4,993	0	-1,300
Mean cfs			- - -	1,980	107	161	0	-42
Acre-feet			102,639	121,724	6,598	9,905	1	-2,581

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 9,620 AF, San Benito: 285 AF.

2/ Includes 1 AF delivered to Parks and Recreation.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**March 2002**

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	9,053	5,327	1,727	-378	3,551	3,551	419
2	10,511	6,726	0	0	2,011	2,011	469
3	8,770	5,025	0	0	0	0	490
4	9,312	5,454	2,066	-94	1,070	1,070	514
5	7,705	3,898	1,717	-429	1,504	1,504	492
6	8,407	4,624	0	0	4,612	4,612	464
7	5,656	1,845	1,088	1,088	6,514	6,514	472
8	7,703	3,899	0	0	5,433	2,810	443
9	7,443	3,621	0	0	3,415	910	440
10	9,846	6,880	0	0	3,995	1,215	462
11	7,253	4,316	0	0	4,557	3,711	466
12	6,039	3,010	0	0	4,948	4,948	439
13	5,713	2,913	0	0	9,814	6,158	448
14	7,089	4,575	0	0	9,748	7,004	477
15	7,423	4,920	0	0	7,011	4,162	474
16	9,736	7,207	0	0	3,054	3,054	458
17	9,588	7,172	0	0	11,933	6,346	442
18	7,208	4,741	0	0	6,438	3,810	427
19	6,596	4,097	0	0	7,259	4,914	392
20	6,697	4,186	0	0	10,727	8,171	328
21	5,629	3,129	0	0	8,923	4,331	394
22	9,684	7,159	0	0	3,940	28	315
23	8,668	6,113	0	0	0	0	120
24	8,679	6,204	0	0	0	0	0
25	6,654	4,119	0	0	0	0	0
26	8,047	6,207	0	0	0	0	0
27	8,338	6,484	0	0	1,267	-14	0
28	9,384	7,562	0	0	0	0	0
29	8,994	7,185	0	0	0	0	12
30	11,581	9,769	0	0	0	0	33
31	14,162	12,460	0	0	0	0	15
<b>Total</b>	<b>257,568</b>	<b>170,827</b>	<b>6,598</b>	<b>187</b>	<b>121,724</b>	<b>80,820</b>	<b>9,905</b>

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations  
**March 2002**

United States  
 Department of the Interior  
 Bureau of Reclamation  
 Central Valley Project

State of California  
 The Resources Agency  
 Department of Water Resources  
 State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Feb 28	327.57	20,468					
1	327.56	20,463	-5	0	0	0	-5
2	327.56	20,463	0	0	0	0	0
3	327.58	20,472	9	5	0	0	0
4	327.59	20,477	5	3	0	0	-1
5	327.61	20,486	9	5	0	0	-1
6	327.63	20,496	10	5	0	0	0
7	327.63	20,496	0	0	0	0	0
8	327.64	20,501	5	3	0	0	-1
9	327.67	20,515	14	7	0	0	0
10	327.68	20,519	4	2	0	0	0
11	327.70	20,529	10	5	0	0	0
12	327.70	20,529	0	0	0	0	0
13	327.70	20,529	0	0	0	0	0
14	327.70	20,529	0	0	0	0	0
15	327.70	20,529	0	0	0	0	0
16	327.69	20,524	-5	0	0	0	-5
17	327.74	20,547	23	12	0	0	0
18	327.75	20,552	5	3	0	0	0
19	327.77	20,562	10	5	0	0	0
20	327.80	20,576	14	7	0	0	0
21	327.81	20,580	4	2	0	0	0
22	327.82	20,585	5	3	0	0	0
23	327.83	20,590	5	3	0	0	-1
24	327.85	20,599	9	5	0	0	-1
25	327.87	20,608	9	5	0	0	-1
26	327.89	20,618	10	5	0	0	0
27	327.91	20,627	9	5	0	0	-1
28	327.93	20,637	10	5	0	0	0
29	327.94	20,641	4	2	0	0	0
30	327.95	20,646	5	3	0	0	-1
31	327.96	20,651	5	3	0	0	-1
Total			183	102	0	0	-19
Mean cfs			---	3	0	0	---
Acre-feet			183	201	0	0	-19

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

March 2002

United States  
 Department of the Interior  
 Bureau of Reclamation  
 Central Valley Project

State of California  
 The Resources Agency  
 Department of Water Resources  
 State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Feb 28	602.60	826					
1	602.60	826	0	2	0	2	
2	Not observed			2	0	2	
3	Not observed			2	0	2	
4	Not observed			2	0	2	
5	Not observed			2	0	2	
6	602.65	829	3	4	0	2	
7	602.65	829	0	2	0	2	
8	Not observed			2	0	2	
9	Not observed			2	0	2	
10	Not observed			2	0	2	
11	Not observed			2	0	2	
12	Not observed			2	0	2	
13	Not observed			2	0	2	
14	Not observed			2	0	2	
15	Not observed			2	0	2	
16	Not observed			2	0	2	
17	602.60	826	-3	0	0	2	
18	Not observed			2	0	2	
19	Not observed			2	0	2	
20	Not observed			2	0	2	
21	Not observed			2	0	2	
22	Not observed			2	0	2	
23	602.60	826	0	2	0	2	
24	602.60	826	0	2	0	2	
25	602.65	829	3	4	0	2	
26	Not observed			2	0	2	
27	Not observed			2	0	2	
28	Not observed			2	0	2	
29	602.65	829	0	2	0	2	
30	Not observed			2	0	2	
31	602.65	829	0	2	0	2	
Total			3	64	0	62	---
Mean cfs			---	2	0	2	---
Acre-feet			3	127	0	123	-1

1/ Not available on a daily basis

**Table 19a. Governor Edmund G. Brown California Aqueduct**  
San Luis Field Division, Monthly Deliveries

(In acre-feet)

**March 2002**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries			
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation
	No.	Structure							
2B	12	Check No. 12	66.71		223,309				
3A		San Luis Reservoir		Department of Parks and Recreation	1	9,620		1	0
				San Felipe Division Santa Clara Water District	9,620				
				San Felipe Division San Benito Water District	285				
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	3	730		2	1
				Cattle Program	1				
				Department of Fish & Game	84				
				San Luis Water District	730				
		(Floodwater Inflow)	0						
		Reach 3 Subtotal:	818	730	0	49	39		
		Check No. 13 Dos Amigos Pumping Plant	86.73		257,568				
4	14		89.03 Thru 94.06	San Luis Water District	4,898	4,898			
				Pacheco Water District	994	994			
					30	30			
					84	84			
				Check No. 14	95.06				
	15		98.15 Thru 104.20	San Luis Water District	903	903			
				Panoche Water District	3,654	3,654			
					(Floodwater Inflow)	0			
				Broadview Water District	0				
				105.22 Thru 108.64	Westlands Water District	7,759	7,759		
Check No.15	108.50								
				San Felipe Division Total:	9,905	9,905	0	0	0
				Pacheco Water District Total:	994	994	0	0	0
				Broadview Water District Total:	0	0	0	0	0
				City of Dos Palos Total:	84	84	0	0	0
				SLWD Reach 4 Subtotal:	5,801	5,801	0	0	0
				Panoche Water District Total:	3,684	3,684	0	0	0
				SLWD Total:	6,531	6,531	0	0	0
				Westlands WD Reach 4 Subtotal:	7,759	7,759	0	0	0

**Table 19b. Governor Edmund G. Brown California Aqueduct**  
San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**March 2002**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
5	16		110.52	(Reverse flow, Kings River)	0	8,238		1			
			Thru		Westlands Water District					8,238	
				122.05	Department of Fish and Game					1	
		Check No. 16		122.07							
	17			124.18	Westlands Water District	6,535	6,535				
			Thru								
				132.74							
		Check No. 17		132.95							
	18			133.81	Westlands Water District	8,380	8,380				
			Thru								
				142.61							
		Pleasant Valley Pumping Plant		143.16	Westlands Water District	8,310	8,310				
				143.16	City of Coalinga	234	234				
	Check No. 18		143.23								
				Westlands WD Reach 5 Subtotal:	31,464	31,463	0	1	0		
6	19		145.26	Westlands Water District	16,052	16,052					
			Thru								
				151.19							
	Check No. 19		155.64								
				Westlands WD Reach 6 Subtotal:	16,052	16,052	0	0	0		
7	20		156.34	City of Huron	47	47					
				156.40	Westlands Water District	5,970	5,970				
			Thru								
				163.69							
		Check No. 20		164.69							
	21			164.79	City of Avenal	174	174				
				167.04	Westlands Water District	2,697	2,697				
		Thru									
		171.67									
	Check No. 21		172.40		188,925						
				Reach 7 Total:	8,888	8,888	0	0	0		
				Westlands WD Total:	63,941	63,941	0	0	0		
				City of Coalinga Total:	234	234	0	0	0		
				City of Huron Total:	47	47	0	0	0		
				City of Avenal Total:	174	174	0	0	0		
				Phase I Water Total:	0	0	0	0	0		
Total San Luis Field Division Deliveries:					85,683	85,594	0	50	39		

**Table 20. Consolidated State-Federal San Luis Canal 1/  
Daily Operations  
March 2002**

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/	Pool 15	Pools 15 thru 21 4/	Flow Past Check 21	
Feb 28	28,703								
1	29,292	589	0	4,564	181	78	1,077	3,041	110
2	29,723	431	0	5,299	69	62	1,040	3,651	-260
3	29,572	-151	0	4,421	80	61	1,082	3,081	-193
4	30,087	515	0	4,695	218	79	1,044	2,837	-257
5	29,738	-349	0	3,885	32	59	1,040	2,496	-434
6	30,109	371	0	4,238	32	42	1,043	2,852	-82
7	29,706	-403	0	2,852	206	42	1,053	1,844	90
8	29,837	131	0	3,884	207	32	1,055	2,595	71
9	28,720	-1,117	0	3,752	56	36	1,078	3,116	-29
10	29,070	350	0	4,964	143	41	1,068	3,666	130
11	29,809	739	0	3,657	160	46	1,025	2,080	27
12	29,247	-562	0	3,045	37	48	1,065	2,086	-92
13	29,143	-104	0	2,880	42	48	1,078	2,176	412
14	28,856	-287	0	3,574	220	47	1,035	2,567	150
15	28,302	-554	0	3,742	220	47	1,038	2,645	-71
16	27,442	-860	0	4,908	93	53	1,054	4,168	26
17	29,046	1,604	0	4,834	93	63	1,062	3,007	199
18	29,858	812	0	3,634	100	63	1,050	2,418	406
19	29,242	-616	0	3,325	92	73	1,029	2,694	252
20	29,852	610	0	3,376	93	73	1,022	1,971	90
21	29,249	-603	0	2,838	77	75	1,042	2,056	108
22	30,338	1,089	0	4,882	78	76	1,034	3,285	140
23	29,796	-542	0	4,370	71	70	1,025	3,687	210
24	30,451	655	0	4,376	58	58	1,066	3,243	379
25	29,151	-1,300	0	3,355	178	74	1,028	3,130	400
26	29,215	64	0	4,057	98	58	1,015	2,941	87
27	28,587	-628	0	4,204	100	59	1,019	3,386	44
28	28,585	-2	0	4,731	131	78	1,075	3,516	67
29	29,006	421	0	4,534	131	78	1,037	3,285	209
30	27,936	-1,070	0	5,839	86	69	1,042	5,529	348
31	28,917	981	0	7,140	86	69	1,045	6,200	755
Total		214	0	129,855	3,468	1,857	32,466	95,248	3,293
Mean cfs		- - -	0	4,189	112	60	1,047	3,073	106
Acre-feet		214	0	257,568	6,879	3,684	64,397	188,925	6,531

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water and Flood Water is included in the gain or loss.

3/ Includes 993 AF AG & 1 AF M&I to Pacheco W.D. and 84 AF to the City of Dos Palos.

4/ Includes 47 AF to the City of Huron, 174 AF to the City of Avenal, 234 AF to the City of Coalinga, 0 AF Phase I Water @ Lat. 13R, 1 AF to F&G @ WWD Lateral 4L, and 0 AF to Broadview W.D.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

**March 2002**

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	88	88	60	57	62	3,399	3,161	2,952	2,845
2	60	60	47	42	48	4,803	4,402	4,300	4,252
3	80	80	59	55	64	4,040	4,101	4,027	3,868
4	111	111	46	43	48	3,418	3,366	3,280	3,196
5	105	105	54	49	55	3,388	3,434	3,379	3,204
6	102	102	47	45	49	3,757	3,530	3,431	3,253
7	55	55	48	46	49	2,089	1,777	1,718	1,647
8	55	55	42	40	47	3,994	3,712	3,624	3,481
9	71	71	43	40	44	5,147	5,197	5,077	4,834
10	55	55	48	44	49	6,531	6,830	6,726	6,446
11	64	64	42	39	44	3,049	3,328	3,157	3,064
12	104	104	65	59	66	3,223	3,461	3,227	3,110
13	163	163	57	54	59	3,545	3,759	3,503	3,266
14	214	214	73	68	73	3,903	3,695	3,400	3,346
15	213	213	54	49	55	3,686	3,609	3,418	3,381
16	213	213	54	50	57	5,861	5,681	5,422	5,374
17	106	106	57	52	59	5,409	5,492	5,133	5,157
18	150	150	54	52	56	3,683	3,937	3,681	3,502
19	330	330	62	57	66	4,169	4,190	3,825	3,841
20	422	422	104	96	103	2,044	1,890	1,731	1,636
21	352	352	96	91	97	2,674	1,855	1,778	1,642
22	314	314	92	86	92	4,622	4,443	4,199	4,115
23	141	141	75	71	76	6,065	5,747	5,437	5,425
24	111	111	105	99	100	5,533	5,799	5,636	5,586
25	229	229	100	95	100	5,002	4,992	4,752	4,644
26	251	251	101	93	101	4,995	4,950	4,772	4,727
27	245	245	101	96	101	5,065	5,136	4,876	4,695
28	243	243	123	112	119	5,205	4,961	4,758	4,700
29	167	167	120	112	116	5,089	5,208	4,958	4,808
30	158	158	103	97	104	5,750	5,712	5,460	5,372
31	105	105	43	39	44	6,063	6,089	5,870	5,801
<b>Total</b>	<b>5,077</b>	<b>5,077</b>	<b>2,175</b>	<b>2,028</b>	<b>2,203</b>	<b>135,201</b>	<b>133,444</b>	<b>127,507</b>	<b>124,218</b>

**Table 22a. Governor Edmund G. Brown California Aqueduct**  
 San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

**March 2002**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending					Entitle-ment	USBR	EWA 2:1 Exchange Water	Article 21 Water	Other	
	No.	Structure	Mile								
7	21	Check No. 21	172.40		188,925						
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	0	2,443		278	425		
				County of Kings TL - A	0						
				TLBWSD TL-A	3,146						
175.18			DRWD - 1	184	184						
177.54			DRWD - 1B	91	91						
180.64			TLBWSD - C	0							
180.65			DRWD - 1A	591	591						
182.99			DRWD - 2	2,830	2,101						
183.00			Tulare Lake Basin WSD TL - B	3,144	1,457						
31A					184.63						Coastal Branch
8D			184.78	Dudley Ridge Water Dist. DRWD - 3	1,083	1,083					
				Dudley Ridge Reach 8D Total:	4,779	4,050	0	42	687	0	
				Tulare Lake Basin WSD Total:	6,290	3,900	0	278	1,942	170	
		Check No. 22	184.82								
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	1,863	1,700		163			
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	919						919
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	126						126
			196.40	Kern County Water Agency Berrenda Mesa - 2	0						
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	367						367
				K.C.W.A. Reach 9 Subtotal:	3,275						3,112
		Check No. 23	197.05								
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	432	432					
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	225						225
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0						
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	0						
				Check No. 24	207.94						
10A	25		209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	2,199	2,199		10	40	2/ 397	
			209.78	Kern National Wildlife Refuge USBR BV-1B	0						
				Kern County Water Agency Buena Vista WSD 1B	108						58
			209.80	KCWA Semitropic WSD	12,915						12,518
				KCWA Semitropic WSD Penstocks	0						
				USBR Total:	0						0
	K.C.W.A. Reach 10A Subtotal:	15,879	15,432	0	10	40	397				

1/ Dudley Ridge transferred this EWA 2:1 water to Tulare Lake Basin WSD.

2/ Alameda Co. FCWCD - Zone 7's Article 21 Water stored in Semitropic Water Storage District.

**Table 22b. Governor Edmund G. Brown California Aqueduct**  
 San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**March 2002**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending					Entitlement	USBR	EWA 2:1 Exchange Water	Article 21 Water	Other
	No.	Structure	Mile							
11B	25		210.75	Kern County Water Agency Belridge - 2	0	5,563	208			
			214.11	Kern County Water Agency Belridge - 3	0					
			216.62	Kern County Water Agency Belridge - 4	0					
			217.13	Kern County Water Agency Belridge - 5	5,771					
				Kern County Water Agency Belridge - 5D	132					
			Check No. 25	217.79						
				K.C.W.A. Reach 11B Subtotal:	5,903	5,695	0	208	0	0
12D	26		219.58	Kern County Water Agency Belridge - 6	0	7				
				Kern County Water Agency West Kern - 3	7					
			Check No. 26	224.92						
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0	304 145	53 357	216 3,253		
			Check No. 27	231.73						
	28		238.04	235.75	Kern County Water Agency Buena Vista - 2					573
				Kern County WA CVC	3,755					
				DRWD CVC	0					
				Tulare Co.	0					
				Lower Tule River	0					
				Fresno Co.	0					
				Pixley ID	0					
		Hacienda DWR Wells	0							
		Check No. 28	238.11							
				1/ Arvin Edison Total:	0	0	0	0	0	
				Reach 12E Subtotal:	4,328	449	0	410	3,469	0
13B	29		238.19	Kern Water Bank Inflow	0	37	119	1,928	2/ 247	
				Kern Water Bank Outflow	2,331					
			241.02	Kern River Intertie (inflow)	0					
			242.85	KCWA Buena Vista WSD - 7	0					
				KCWA Buena Vista WSD - 5	175					
		243.09	Kern County Water Agency Buena Vista - 3	311						
	Check No. 29	244.54	Buena Vista WSD	0						
	30		249.85	Kern County Water Agency Buena Vista - 4	0	166	28	117		
		Buena Vista Pumping Plant	250.99		135,201					
				K.C.W.A. Reach 13B Subtotal:	2,817	219	0	177	2,174	247
14A	31		254.47	Kern County Water Agency West Kern - 2	0	87				
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	87					

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Dudley Ridge WD's Article 21 water stored in the Kern Water Bank.

**Table 22c. Governor Edmund G. Brown California Aqueduct**  
 San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**March 2002**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending					Entitle-ment	Extended Carryover	EWA 2:1 Exchange Water	Article 21 Water	Other	
	No.	Structure	Mile								
14A	31	Check No. 31	256.14								
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	204	204					
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	488		488				
		Check No. 32	261.72								
				KCWA Reach 14A Subtotal:	779	779	0	0	0	0	
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	2,279	1,910		300	69		
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	270		270				
		Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	2,615	2,615					
		Check No. 34	271.27								
				Reach 14B Total:	5,164	4,795	0	300	69	0	
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	1,350	1,350					
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	694		694				
				Reach 14C Total:	2,044		2,044	0	0	0	0
15A		Teerink Pumping Plant	278.13		133,444						
	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	196	196					
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	2,531		2,531				
				Reach 15-A Total:	2,727		2,727	0	0	0	0
	Chrisman Pumping Plant	280.36		127,507							
16A	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0						
		Check No. 37	283.95								
	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	13	13					
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	34		34				
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0						
		Check No. 38	287.09								
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	110	110					
		Check No. 39	290.21								
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	602	602					
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	167		167				
		Kern County Water Agency Tehachapi Cummings CWD		30	17		13				
			K.C.W.A. Reach 16A Subtotal:	956	943		13	0	0	0	
17E		Edmonston Pumping Plant	293.45		124,218						

**Table 23. Governor Edmund G. Brown California Aqueduct**  
 San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

**March 2002**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries									
	Beginning and Ending					Entitle-ment	Extended Carryover	EWA 2:1 Exchange Water	Article 21 Water	Other					
	No.	Structure	Mile												
31A	C-1	Coastal Branch Control	0.02		5,077	2,643		81							
		Las Perillas Pumping Plant	1.16		5,077										
	C-2		3.79	Green Valley Water District	0										
		Badger Hill Pumping Plant	4.27		5,077										
	C-3	Coastal Check No. 3	7.21												
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0										
		Coastal Check No. 4	9.34												
	C-5	Coastal Check No. 5	12.20												
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	2,724										
			14.83	Kern County Water Agency Berrenda Mesa - DD	0										
				Kern County Water Agency Berrenda Mesa - PO	275										
		Devil's Den Pumping Plant	14.86		2,175										
				K.C.W.A. Reach 31A Subtotal:	2,999						2,918	0	81	0	0
				K.C.W.A. Total:	46,878						39,120	13	1,349	5,752	644
33A	C-7	Bluestone Pumping Plant	19.05		2,028	796			99	1/ 978					
	C-8	Polonio Pass Pumping Plant	26.54		2,203										
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant											
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,873										
		Tank Site 2	58.63	Central Coast:	0										
	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	338										
34		Energy Dissipater	78.12												
		Lopez T.O.	85.86	SLOCFC & WCD	0										
		CCWA Total:		2,211	1,134	0	0	99	978						
35	C-12	Guadalupe T.O.	102.70	SBCFC & WCD	0										
		Santa Maria T.O.	107.43	SBCFC & WCD	0										
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0										
38				SBCFC & WCD Total:	0	0	0	0	0						
		Tank Site 5	115.42												

1/ 2001-2002 Special Carryover Water.

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

**March 2002**

Date	West Branch					East Branch							
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation
		Generation	Leakage	Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume	
1	1,290	1,422	0	3,401	1,614	1,535	0	0	1,404	958	0	0	1,927
2	1,933	1,434	0	1,922	0	2,323	0	0	2,175	2,064	0	0	1,770
3	1,613	1,384	0	348	0	2,248	0	0	2,043	2,063	0	0	1,554
4	1,337	1,592	0	3,149	0	1,410	0	0	1,765	2,016	0	0	1,812
5	1,392	1,508	0	3,088	0	1,305	0	0	1,820	1,733	0	0	1,733
6	1,702	1,740	0	2,795	709	1,191	0	0	1,395	1,043	0	0	1,691
7	674	1,502	0	1,981	0	940	0	0	781	856	0	0	1,680
8	2,120	2,302	0	2,462	0	1,069	0	0	1,362	1,734	0	0	1,769
9	2,998	2,365	0	253	712	1,901	0	0	1,650	1,679	0	0	1,965
10	2,892	2,276	0	337	367	3,583	0	0	3,330	2,882	0	0	1,283
11	1,463	1,870	0	2,809	562	1,637	0	0	1,720	1,755	0	0	1,708
12	1,584	1,843	0	2,432	0	1,351	0	0	1,518	1,534	0	0	1,668
13	1,732	2,084	0	3,114	1,961	1,496	0	0	1,398	1,507	0	0	1,725
14	1,810	2,039	0	4,050	0	1,556	0	0	1,408	1,500	0	0	1,737
15	1,851	1,872	0	1,799	0	1,534	0	0	1,252	1,199	0	0	1,694
16	3,838	3,269	0	1,120	0	1,680	0	0	1,514	1,428	0	0	1,630
17	3,232	3,193	0	1,885	8	1,979	0	0	1,855	1,735	0	0	1,702
18	938	1,373	0	2,596	737	544	0	0	2,866	2,612	0	0	1,685
19	1,744	2,063	0	3,860	0	2,123	0	0	1,728	1,773	0	0	1,740
20	429	529	0	3,290	0	1,081	0	0	1,071	1,111	0	0	1,601
21	480	691	0	2,951	0	1,119	0	0	930	1,076	0	0	1,323
22	2,192	1,968	0	3,288	0	1,954	0	0	1,646	1,846	0	0	1,959
23	3,353	3,280	0	6	533	2,108	0	0	2,043	2,031	0	0	1,463
24	3,396	3,275	0	0	699	2,276	0	0	1,974	1,514	0	0	1,580
25	3,045	3,273	0	4,635	816	1,708	0	0	1,734	2,353	0	0	1,747
26	3,100	3,185	0	3,595	0	1,704	0	0	1,530	1,467	0	0	1,630
27	2,747	3,098	0	3,475	0	1,987	0	0	1,831	1,752	0	0	1,586
28	3,197	3,206	0	2,458	0	1,595	0	0	1,570	1,438	0	0	1,695
29	3,184	3,020	0	3,116	746	1,660	0	0	1,302	1,602	0	0	1,463
30	3,881	3,083	0	3,358	547	1,612	0	0	1,410	1,366	0	0	1,723
31	3,232	3,141	0	2,295	1,574	2,647	0	0	2,377	2,417	0	0	1,578
Total	68,379	68,880	0	75,868	11,585	52,856	0	0	52,402	52,044	0	0	51,821

**Table 25. Pyramid Lake**  
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**March 2002**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural	
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek	
Feb 28	2573.39	164,018								
1	2573.08	163,627	-391	1,614	1,422	31	3,401	0	26	-31
2	2572.62	163,048	-579	0	1,434	31	1,922	0	26	-96
3	2573.42	164,056	1,008	0	1,384	30	348	0	26	-32
4	2572.16	162,471	-1,585	0	1,592	29	3,149	0	26	-31
5	2571.44	161,570	-901	0	1,508	30	3,088	0	24	673
6	2570.54	160,449	-1,121	709	1,740	29	2,795	0	24	-780
7	2570.17	159,989	-460	0	1,502	31	1,981	0	24	12
8	2570.54	160,449	460	0	2,302	31	2,462	0	24	613
9	2572.20	162,521	2,072	712	2,365	31	253	0	24	-759
10	2574.03	164,826	2,305	367	2,276	31	337	0	24	-8
11	2573.64	164,333	-493	562	1,870	31	2,809	1	24	-122
12	2573.21	163,791	-542	0	1,843	29	2,432	0	24	42
13	2573.90	164,662	871	1,961	2,084	29	3,114	0	24	-65
14	2572.23	162,559	-2,103	0	2,039	29	4,050	0	24	-97
15	2572.25	162,584	25	0	1,872	29	1,799	0	24	-53
16	2573.90	164,662	2,078	0	3,269	32	1,120	0	24	-79
17	2574.96	166,006	1,344	8	3,193	29	1,885	0	24	23
18	2574.52	165,447	-559	737	1,373	31	2,596	0	24	-80
19	2573.10	163,652	-1,795	0	2,063	29	3,860	0	24	-3
20	2570.86	160,847	-2,805	0	529	29	3,290	0	24	-49
21	2569.03	158,578	-2,269	0	691	29	2,951	0	24	-14
22	2567.83	157,102	-1,476	0	1,968	29	3,288	0	24	-161
23	2570.89	160,884	3,782	533	3,280	29	6	0	24	-30
24	2574.01	164,801	3,917	699	3,275	29	0	0	24	-62
25	2573.53	164,194	-607	816	3,273	29	4,635	0	24	-66
26	2573.19	163,766	-428	0	3,185	29	3,595	0	24	-23
27	2572.86	163,350	-416	0	3,098	29	3,475	0	24	-44
28	2573.42	164,056	706	0	3,206	29	2,458	0	25	-46
29	2573.87	164,624	568	746	3,020	29	3,116	0	25	-86
30	2574.09	164,902	278	547	3,083	28	3,358	0	25	3
31	2575.88	167,179	2,277	1,574	3,141	28	2,295	0	25	-146
<b>Total</b>			<b>3,161</b>	<b>11,585</b>	<b>68,880</b>	<b>918</b>	<b>75,868</b>	<b>1</b>	<b>756</b>	<b>-1,597</b>

**Table 26. Elderberry Forebay**

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

**March 2002**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake		
							Natural	Project	
Feb 28	1510.57	19,404							
1	1507.04	18,063	-1,341	3,401	2	1,614	2	3,126	-2
2	1511.97	19,950	1,887	1,922	2	0	2	0	-35
3	1512.75	20,258	308	348	2	0	2	0	-40
4	1520.20	23,326	3,068	3,149	2	0	2	0	-81
5	1514.85	21,099	-2,227	3,088	2	0	2	4,597	-718
6	1521.32	23,806	2,707	2,795	2	709	2	0	621
7	1515.95	21,548	-2,258	1,981	2	0	2	4,237	-2
8	1519.90	23,198	1,650	2,462	2	0	2	0	-812
9	1513.64	20,612	-2,586	253	2	712	2	2,835	708
10	1513.48	20,548	-64	337	2	367	2	0	-34
11	1518.78	22,724	2,176	2,809	2	562	1	0	-72
12	1512.77	20,266	-2,458	2,432	1	0	1	4,884	-6
13	1502.88	16,543	-3,723	3,114	1	1,961	1	4,875	-1
14	1513.39	20,512	3,969	4,050	1	0	1	0	-81
15	1505.41	17,460	-3,052	1,799	1	0	1	4,850	-1
16	1508.35	18,555	1,095	1,120	1	0	1	0	-25
17	1513.12	20,405	1,850	1,885	1	8	2	0	-26
18	1504.10	16,982	-3,423	2,596	2	737	2	5,312	30
19	1513.95	20,736	3,754	3,860	2	0	2	0	-106
20	1505.84	17,618	-3,118	3,290	2	0	2	6,404	-4
21	1513.41	20,520	2,902	2,951	2	0	1	0	-50
22	1521.25	23,776	3,256	3,288	1	0	1	0	-32
23	1520.03	23,253	-523	6	1	533	2	0	5
24	1512.10	20,001	-3,252	0	2	699	2	2,547	-6
25	1511.90	19,923	-78	4,635	2	816	2	3,896	-1
26	1511.58	19,797	-126	3,595	2	0	2	3,717	-4
27	1512.70	20,238	441	3,475	1	0	1	3,033	-1
28	1511.15	19,629	-609	2,458	1	0	1	3,066	-1
29	1509.84	19,123	-506	3,116	1	746	1	2,877	1
30	1509.52	19,000	-123	3,358	1	547	1	2,930	-4
31	1511.32	19,696	696	2,295	1	1,574	1	0	-25
<b>Total</b>			292	75,868	49	11,585	49	63,186	-805

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**March 2002**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)
				From Elderberry Forebay		Natural	Deliveries	Released To Castaic Lagoon	
				Natural	Project				
Feb 28	1489.21	269,042							
1	1489.81	270,249	1,207	0	3,126	0	1,918	0	-1
2	1488.82	268,260	-1,989	0	0	0	1,963	0	-26
3	1487.83	266,279	-1,981	0	0	0	1,994	0	13
4	1486.81	264,246	-2,033	0	0	0	2,047	0	14
5	1488.04	266,698	2,452	0	4,597	0	2,173	0	28
6	1486.96	264,545	-2,153	0	0	0	2,278	0	125
7	1488.01	266,638	2,093	0	4,237	0	2,178	0	34
8	1486.91	264,445	-2,193	0	0	0	2,173	0	-20
9	1487.27	265,162	717	0	2,835	0	2,158	0	40
10	1486.19	263,015	-2,147	0	0	0	2,150	0	3
11	1485.13	260,917	-2,098	0	0	0	2,175	0	77
12	1486.52	263,670	2,753	1	4,884	0	2,181	0	49
13	1487.76	266,139	2,469	1	4,875	0	2,229	0	-178
14	1486.62	263,869	-2,270	1	0	0	2,279	0	8
15	1487.91	266,439	2,570	1	4,850	0	2,279	0	-2
16	1486.77	264,167	-2,272	1	0	0	2,265	0	-8
17	1485.72	262,084	-2,083	1	0	0	2,128	0	44
18	1487.34	265,301	3,217	0	5,312	0	2,105	0	10
19	1486.32	263,273	-2,028	0	0	0	2,103	0	75
20	1488.53	267,679	4,406	0	6,404	0	2,041	0	43
21	1487.51	265,640	-2,039	0	0	0	2,038	0	-1
22	1486.42	263,471	-2,169	0	0	0	2,167	0	-2
23	1485.29	261,233	-2,238	0	0	0	2,266	0	28
24	1485.44	261,530	297	0	2,547	0	2,286	0	36
25	1486.19	263,015	1,485	0	3,896	0	2,418	0	7
26	1486.76	264,147	1,132	0	3,717	0	2,554	0	-31
27	1487.00	264,624	477	0	3,033	0	2,521	0	-35
28	1487.37	265,361	737	0	3,066	0	2,324	0	-5
29	1487.64	265,900	539	0	2,877	0	2,312	0	-26
30	1488.00	266,618	718	0	2,930	2	2,245	15	46
31	1486.91	264,445	-2,173	0	0	2	2,209	19	53
<b>Total</b>			<b>-4,597</b>	<b>6</b>	<b>63,186</b>	<b>4</b>	<b>68,157</b>	<b>34</b>	<b>398</b>

**Table 28. Governor Edmund G. Brown California Aqueduct**  
Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

**March 2002**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending					Entitle-ment	Rec.	EWA 2:1 Exchange Water	2001-2 Special Carryover	Article 21 Water	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		68,379						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved						
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
29G		Warne Power Plant	14.07		68,880						
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	1		1				
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0						
29J	W4	Castaic Power Plant	25.82	( 11,585 AF pumpback )	75,868						
		Elderberry Forebay									
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	19		19				
			Castaic Dam	31.47							
		Castaic Lake Outlet	31.55	MWD - 78"	15,010		7,286		6,347		1,377
				MWD - 132"	50,088		50,088				
				Castaic Lake WA - T1	1,740		1,615			125	
				Castaic Lake WA	1,146					1,146	
				United Water Conservation Dist.	0						
				MWD - Ventura County FCD	154		154				
				LA Co. Parks & Recreation	0						
Releases to Lagoon	34										
Reach 30 Subtotal:					68,157	59,143	19	6,347	1,271	1,377	
	W6	Castaic Lagoon		Recreation to Lagoon	160		160				
		Castaic Lagoon Outlet	31.87								

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

## Table 29. Silverwood Lake

### Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

March 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/
							Project			Del. To Mojave W.A.	Natural To Mojave River		
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel				
Feb 28	3351.55	71,644											
1	3350.60	70,742	-902	958	0	2	4	0	1,927	0	0	69	4
2	3350.90	71,026	284	2,064	0	2	4	0	1,770	0	1	-7	4
3	3351.42	71,520	494	2,063	0	2	4	0	1,554	0	0	-13	4
4	3351.71	71,796	276	2,016	0	2	4	0	1,812	0	1	75	4
5	3351.70	71,787	-9	1,733	0	2	4	0	1,733	0	0	-7	4
6	3351.04	71,159	-628	1,043	0	2	5	0	1,691	0	1	24	4
7	3350.17	70,337	-822	856	0	3	4	0	1,680	0	0	3	4
8	3350.17	70,337	0	1,734	0	2	4	0	1,769	0	0	37	4
9	3349.80	69,988	-349	1,679	0	2	5	0	1,965	0	1	-59	4
10	3351.40	71,501	1,513	2,882	0	2	5	0	1,283	0	0	-83	4
11	3351.54	71,634	133	1,755	0	2	1	1	1,708	0	1	87	4
12	3351.44	71,539	-95	1,534	0	2	0	0	1,668	0	0	37	4
13	3351.18	71,292	-247	1,507	0	2	0	0	1,725	0	1	-30	4
14	3350.88	71,008	-284	1,500	0	2	0	0	1,737	0	0	-49	4
15	3350.44	70,591	-417	1,199	0	2	0	0	1,694	0	1	77	4
16	3350.23	70,393	-198	1,428	0	2	1	0	1,630	0	0	3	4
17	3350.31	70,469	76	1,735	0	2	0	0	1,702	0	0	41	4
18	3351.34	71,444	975	2,612	0	2	0	0	1,685	0	0	46	4
19	3351.34	71,444	0	1,773	0	2	6	0	1,740	0	1	-28	4
20	3350.83	70,960	-484	1,111	0	2	3	0	1,601	0	0	7	4
21	3350.59	70,733	-227	1,076	0	2	7	0	1,323	0	1	26	4
22	3350.50	70,648	-85	1,846	0	3	7	0	1,959	0	0	32	4
23	3351.02	71,140	492	2,031	0	3	3	1	1,463	0	0	-75	4
24	3350.99	71,112	-28	1,514	0	4	4	0	1,580	0	0	38	4
25	3351.64	71,730	618	2,353	0	3	4	0	1,747	0	1	14	4
26	3351.46	71,558	-172	1,467	0	3	2	0	1,630	0	0	-10	4
27	3351.59	71,682	124	1,752	0	2	3	0	1,586	0	0	-41	4
28	3351.30	71,406	-276	1,438	0	2	3	0	1,695	0	0	-18	4
29	3351.50	71,596	190	1,602	0	2	3	0	1,463	0	1	53	4
30	3351.12	71,235	-361	1,366	0	2	3	0	1,723	0	0	-3	3
31	3351.88	71,958	723	2,417	0	2	2	0	1,578	0	0	-116	2
<b>Total</b>			314	52,044	0	69	95	2	51,821	0	11	130	121

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

**Table 30. Lake Perris**

## Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**March 2002**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Feb 28	1582.57	114,629				
1	1582.81	115,159	530		10	
2	1582.84	115,225	66		10	
3	1582.93	115,424	199		11	
4	1583.02	115,623	199		11	
5	1583.15	115,911	288		10	
6	1583.18	115,977	66		10	
7	1583.39	116,443	466		11	
8	1583.65	117,020	577		10	
9	1583.82	117,398	378		10	
10	1583.88	117,532	134		11	
11	1584.08	117,977	445		11	
12	1584.22	118,290	313		10	
13	1584.40	118,692	402		10	
14	1584.56	119,049	357		10	
15	1584.71	119,385	336		10	
16	1584.89	119,788	403		10	
17	1585.03	120,103	315		11	
18	1585.25	120,597	494		11	
19	1585.40	120,934	337		11	
20	1585.57	121,317	383		33	
21	1585.68	121,565	248		9	
22	1585.65	121,497	-68		11	
23	1585.62	121,430	-67		10	
24	1585.64	121,475	45		10	
25	1585.64	121,475	0		11	
26	1585.71	121,633	158		11	
27	1585.73	121,678	45		10	
28	1585.67	121,542	-136		11	
29	1585.67	121,542	0		10	
30	1585.71	121,633	91		11	
31	1585.70	121,610	-23		11	
<b>Total</b>			<b>6,981</b>	<b>8,973</b>	<b>346</b>	<b>-1,646</b>

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

**Table 31a. Governor Edmund G. Brown California Aqueduct**  
Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

**March 2002**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries																				
	Beginning and Ending					Entitle-ment	Rec.	Transfer 1/	EWA 2:1 Exchange Water	2001-2 Special Carryover	Article 21 Water															
	No.	Structure	Mile																							
17E	40	Edmonston Pumping Plant	293.45		124,218																					
	41		298.65	Kern County Water Agency Tej.-Cas	Stub																					
17F		Check No. 41	303.41																							
18A	42	Check No. 42	304.99																							
19	43	Alamo Powerplant	305.73		52,856	46																				
			308.05	Antelope Valley-East Kern WA	46																					
		Check No. 43	309.70																							
	44		311.84	LADWP Connection	0																					
			313.50	AVEK 245th Street West	0																					
		Check No. 44	314.81																							
	45		314.93	AVEK 235th Street West	13											13										
			315.57	AVEK 225th Street West	0																					
		Check No. 45	319.74																							
	46		323.19	Antelope Valley-East Kern WA Fairmont	866											774		92								
		Check No. 46	323.84																							
				Reach 19 Total:	925	833	0	92	0	0	0	0	0	0	0											
20A	47	Check No. 47	326.77			47																				
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	47																					
			329.65	Antelope Valley-East Kern WA 120th Street West	Re-moved																					
		Check No. 48	330.82																							
	49	Check No. 49	335.93																							
50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	1,702	1,702																					
				0																						
		339.68	Antelope Valley-East Kern WA	55																						
	Check No. 50	341.51			55																					
51	Check No. 51	342.07																								
20B	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use	904																				
			Check No. 52	343.74																						
	53		346.98	PWD Palmdale	904																					
		348.14	Antelope Valley-East Kern WA Acton Treatment Plant	101	101																					
	Check No. 53	348.17																								
21	54	Check No. 54	350.25																							
	55	Check No. 55	352.70																							
	56	Check No. 56	354.76																							
			354.97	Littlerock Creek I.D.	0																					
	57	Check No. 57	356.93																							
22A	58		357.60	Antelope Valley-East Kern WA	44	44																				
			357.72	Antelope Valley-East Kern WA 96th Street East	194	194																				
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	200	200																				

1/ AVEK transferred this water to Mojave Water Agency.

**Table 31b. Governor Edmund G. Brown California Aqueduct**  
Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

**March 2002**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	EWA 2:1 Exchange Water	2001-2 Special Carryover	Article 21 Water		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		52,402	143	2					
	59	Check No. 59	366.09									
	60	Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20	Mojave Water Agency Mojave River	0							
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
23	66		401.10	Mojave Water Agency Morongo 24" and 42"	143	95	2					
				Mojave Water Agency Hesperia	0							
		Check No. 66	403.41									
24	67	Mojave Siphon	405.48	Las Flores Ranch	121	95	2					
		Mojave Siphon Powerplant	405.65		52,044							
25	67	Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency	95	95	2					
		San Bernardino Tunnel	411.46	Calif. State Park Silverwood Agency (Rec.)	2							
26A	68	Devil Canyon Afterbay Control Structures	412.73	San Gorgonio Pass Water Agency	0	12,528						
				Devil Canyon Powerplant	412.73							51,821
				MWD-SC Rialto	12,528						12,528	
				Desert Water Agency (MWD Wheeling Exchange)	2,315						2,287	
				San Gabriel Valley Water District	0							
				Coachella Valley WD (MWD Wheeling Exchange)	1,403						1,387	
				San Bernardino Valley MWD 24" and 72"	1,026							
San Bernardino Valley MWD 48"	0											
28G	69	Santa Ana Valley Pipeline	425.46	MWD (SBVMWD Exchange)	0	5,761						
28H			MWD-SC Box Springs	5,761								
			MWD-SC Perris Bypass Pipeline	20,700								
28J	69	Lake Perris	442.00	MWD-SC 18"	293	20,700						
			443.44	MWD-SC 54"	9	9						
				MWD-SC 78"	19	19						
				Calif. State Park Lake Perris Recreation	25		25					
MWD Total:					110,020	102,127	0	6,347	125	1,421		

**Table 32. Water Quality At Selected SWP Locations**

**March 2002**

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO3	46	138	82	87	91	92	97	97	88
Antimony	mg/l	NR	<0.005	<0.005	NR	<0.005	NR	<0.005	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	NR	0.06	0.12	0.16	0.16	0.15	0.17	0.17	0.18
Calcium	mg/l	9	22	20	24	25	24	26	26	24
Carbon - Dissolved Organic	mg/l as C	NR	5.4	3.6	3.7	3.6	3.9	3.8	4.0	4.5
Carbon - Total Organic	mg/l as C	NR	9.3	7.7	9.3	8.2	10.7	12.4	7.0	9.0
Chloride	mg/l	1	34	43	55	57	54	59	59	60
Chromium	mg/l	0.003	0.011	0.005	0.005	0.005	0.005	0.005	0.006	0.005
Copper	mg/l	<0.001	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Fluoride	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hardness	mg/l as CaCO3	39	137	99	113	120	118	127	127	118
Iron	mg/l	<0.005	0.008	0.018	0.026	<0.005	0.005	0.015	0.012	0.019
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	20	12	13	14	14	15	15	14
Manganese	mg/l	<0.005	0.012	0.008	<0.005	0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	<0.01	0.39	0.81	NR	NR	0.98	NR	1.00	1.10
Phosphorus-Ortho	mg/l as P	<0.01	0.07	0.06	NR	NR	0.06	NR	0.06	0.14
Phosphorus-Total	mg/l	0.02	0.13	0.12	NR	NR	0.09	NR	0.09	0.09
Selenium	mg/l	NR	<0.001	<0.001	NR	0.001	NR	0.001	NR	NR
Sodium	mg/l	4	41	33	44	47	44	48	50	48
Specific Conductance	µS/cm	98	465	395	468	483	466	500	496	469
Sulfate	mg/l	2	48	37	51	54	49	55	54	46
Total Dissolved Solids	mg/l	61	264	202	262	273	269	290	276	261
Turbidity	NTU	6	23	11	13	6	7	6	7	3
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.018	<0.005

mg/l milligrams per liter  
 µg/l micrograms per liter  
 µS/cm microSiemens per centimeter  
 NR - Not Reported  
 NTU - nephelometric turbidity units

**Table 33. Water Quality At Selected Delta Stations**

**March 2002**

Date	Tides (feet above mean sea level)		Flow In CFS			Electrical Conductivity in milliSiemens/cm									CI in mg/l
	(Antioch) Daily Mean		Net Delta Outflow Index		Rio Vista	Antioch	Chippis island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	Contra Costa Canal Intake
			Mean Daily	Monthly Average	md	md	md	md	14dm	md	14dm	md	md	md	md
	Hi	Half			md	md	md	md	14dm	md	14dm	md	md	md	md
1	2.58	1.04	12,671	12,671	14,762	0.44	1.39	0.20	0.24	0.35	0.38	0.51	0.96	0.61	73
2	2.75	0.90	11,891	12,281	14,686	0.50	1.46	0.20	0.23	0.34	0.37	0.60	0.97	0.66	74
3	2.75	0.75	11,601	12,055	15,101	0.50	1.37	0.22	0.23	0.34	0.37	0.57	0.98	0.61	76
4	2.67	0.71	11,663	11,957	14,897	0.49	1.37	0.22	0.23	0.34	0.37	0.46	0.99	0.60	69
5	2.92	0.98	11,585	11,883	14,509	0.52	1.63	0.22	0.23	0.34	0.37	0.46	0.99	0.56	68
6	3.18	1.38	11,141	11,759	14,593	0.56	1.91	0.00	0.22	0.35	0.36	0.47	0.98	0.56	70
7	3.19	1.53	14,872	12,204	17,092	0.61	2.13	0.00	0.22	0.35	0.36	0.42	0.92	0.57	71
8	2.61	1.06	19,178	13,075	20,836	0.54	1.41	0.00	0.22	0.33	0.36	0.42	0.76	0.67	71
9	2.65	0.98	22,693	14,144	22,866	0.50	0.99	0.00	0.21	0.32	0.35	0.44	0.79	0.63	74
10	2.82	1.09	24,509	15,181	24,031	0.47	0.88	0.00	0.21	0.31	0.34	0.46	0.83	0.62	73
11	2.67	0.96	27,264	16,279	24,849	0.43	0.66	0.20	0.21	0.30	0.34	0.46	0.81	0.63	75
12	2.70	0.98	23,916	16,916	24,648	0.41	0.52	0.20	0.21	0.29	0.33	0.44	0.76	0.61	76
13	2.40	0.89	23,857	17,449	23,602	0.38	0.39	0.19	0.21	0.29	0.33	0.40	0.79	0.61	83
14	2.14	0.58	22,180	17,787	21,822	0.37	0.28	0.18	0.20	0.28	0.32	0.43	0.85	0.61	69
15	2.13	0.62	19,936	17,931	20,199	0.35	0.28	0.18	0.20	0.27	0.32	0.42	0.88	0.63	67
16	2.21	0.68	16,556	17,845	18,753	0.33	0.27	0.18	0.20	0.27	0.31	0.44	0.90	0.59	63
17	2.28	0.61	14,728	17,661	17,662	0.31	0.24	0.18	0.19	0.26	0.31	0.50	0.90	0.58	63
18	1.97	0.29	15,461	17,539	17,523	0.31	0.19	0.17	0.18	0.25	0.30	0.47	0.89	0.61	60
19	1.88	0.14	14,722	17,391	16,669	0.30	0.18	0.18	0.18	0.25	0.29	0.41	0.87	0.63	59
20	2.02	0.35	13,435	17,193	15,953	0.28	0.27	0.19	0.18	0.25	0.29	0.43	0.86	0.57	57
21	2.54	0.85	12,392	16,964	15,234	0.27	0.94	0.19	0.18	0.26	0.28	0.46	0.87	0.52	56
22	2.77	1.03	11,598	16,720	15,041	0.28	1.81	0.20	0.19	0.27	0.28	0.40	0.88	0.54	53
23	2.94	1.21	15,168	16,653	15,373	0.37	2.59	0.20	0.19	0.26	0.27	0.40	0.84	0.49	46
24	2.79	1.00	19,034	16,752	18,070	0.38	2.09	0.20	0.19	0.25	0.27	0.39	0.64	0.56	45
25	2.78	0.79	21,906	16,958	20,913	0.38	1.42	0.20	0.19	0.25	0.26	0.42	0.65	0.59	44
26	2.77	0.76	24,986	17,267	20,797	0.36	1.14	0.20	0.19	0.24	0.26	0.43	0.72	0.57	47
27	2.77	0.78	24,174	17,523	19,083	0.31	1.03	0.19	0.19	0.24	0.26	0.41	0.79	0.56	46
28	2.83	0.94	19,918	17,608	16,846	0.32	1.00	0.18	0.19	0.24	0.25	0.39	0.86	0.56	45
29	2.88	1.06	15,087	17,522	14,765	0.32	1.06	0.18	0.19	0.24	0.25	0.39	0.95	0.54	45
30	3.05	1.01	12,010	17,338	14,243	0.55	1.00	0.18	0.19	0.24	0.25	0.45	0.96	0.55	46
31	3.13	1.05	10,349	17,112	14,012	0.32	0.96	0.19	0.19	0.23	0.25	0.48	0.98	0.58	46

Clifton Court Cl(mg/l)=200X EC - 25  
 N.R. = No Record.  
 N.C. = Not computed due to insufficient data.

e = Estimated

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected in the SWP**

**March 2002**

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	March 20, 2002	2,4-Dichlorophenylacetic acid (DCAA)	0.99
California Aqueduct At Banks Pumping Plant	March 20, 2002	2,4-Dichlorophenylacetic acid (DCAA) Simazine	0.98 0.02
O'Niell Forebay Outlet Check 13	March 20, 2002	Simazine 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.97
Delta Mendota Canal At McCabe Road	March 20, 2002	2,4-Dichlorophenylacetic acid (DCAA) Diazinon Simazine	1.06 0.01 0.03
California Aqueduct Near Kettleman City (Check 21)	March 19, 2002	2,4-Dichlorophenylacetic acid (DCAA) Diazinon Simazine	1 0.01 0.02
California Aqueduct At Near Highway 119 (Check 21)	March 19, 2002	Simazine Diazinon 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.01 0.99
California Aqueduct At Tehachapi Afterbay (Check 41)	March 21, 2002	Simazine 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.94
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	March 20, 2002	Simazine 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.91

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)

**March 2002**

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	705,600	8,064	0	1,456	2,289,600	2,289,600	9,845	232
2	169,920	10,080	0	378	2,510,016	2,510,016	9,210	250
3	38,016	9,792	4,256	9,723	2,393,664	2,393,664	7,265	248
4	304,416	10,368	4,277	6,972	2,446,272	2,446,272	65,995	250
5	919,296	5,472	9,604	18,872	2,318,784	2,318,784	65,985	245
6	1,368,288	9,216	10,633	23,240	2,213,952	2,213,952	54,535	251
7	1,327,680	8,064	10,808	22,610	2,367,168	2,367,168	55,865	246
8	1,260,576	5,472	11,116	24,346	2,250,432	2,250,432	67,140	249
9	30,816	5,184	11,172	26,152	2,283,456	2,283,456	63,930	247
10	866,016	288	10,619	26,166	2,314,176	2,314,176	79,630	244
11	1,261,440	0	11,529	26,943	2,292,288	2,292,288	55,780	246
12	1,446,624	0	12,992	26,614	2,536,704	2,536,704	45,060	236
13	1,256,832	0	12,432	26,761	2,563,008	2,563,008	49,560	236
14	2,117,952	1,152	12,152	26,334	2,873,856	2,873,856	55,940	235
15	2,264,544	0	11,466	24,570	2,803,392	2,803,392	74,655	228
16	499,104	0	12,096	27,986	2,835,264	2,835,264	77,340	224
17	440,064	0	10,815	26,866	3,085,440	3,085,440	68,100	228
18	2,166,336	0	10,668	24,542	2,898,432	2,898,432	114,200	86
19	1,319,040	0	12,698	26,117	3,108,288	3,108,288	137,460	0
20	1,540,800	0	15,253	30,835	2,981,568	2,981,568	194,210	0
21	2,856,960	288	20,314	33,180	2,987,520	2,987,520	137,920	123
22	1,417,536	2,016	16,331	29,764	2,869,056	2,869,056	238,595	180
23	132,192	148,608	15,862	28,196	646,080	646,080	244,345	179
24	18,144	2,492,064	19,110	33,446	921,792	921,792	249,615	178
25	3,907,872	2,344,608	22,519	36,253	684,864	684,864	250,580	180
26	2,999,520	1,097,568	23,002	34,993	693,120	693,120	249,045	181
27	2,689,056	947,520	24,528	36,680	922,560	922,560	268,855	181
28	2,525,051	1,120,032	24,458	38,108	844,416	844,416	265,910	185
29	3,263,328	1,560,960	24,444	37,835	918,720	918,720	277,580	184
30	1,963,584	1,114,848	22,967	37,450	1,782,912	1,782,912	304,090	184
31	0	6,825,888	23,324	38,150	3,042,816	3,042,816	295,255	187
Total	43,076,603	17,727,552	431,445	811,538	67,679,616	67,679,616	4,133,495	6,123

**Table 36. San Luis Field Division Energy Data**

(in kWh)

**March 2002**

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,268,352	746,352	472,608	-103,392	1,041,120	1,041,120
2	1,449,504	927,504	0	0	938,016	938,016
3	1,236,384	708,384	0	0	23,040	23,040
4	1,260,000	738,000	550,944	-25,056	527,616	527,616
5	1,056,528	534,528	460,800	-115,200	430,848	430,848
6	1,159,920	637,920	0	0	2,119,104	2,119,104
7	774,720	252,720	229,248	229,248	2,777,184	2,777,184
8	1,056,960	534,960	0	0	2,330,496	1,205,496
9	1,016,496	494,496	0	0	1,345,824	368,824
10	1,354,320	946,320	0	0	1,759,104	535,104
11	1,015,056	604,056	0	0	1,922,112	1,565,112
12	819,504	408,504	0	0	2,119,968	2,119,968
13	838,512	427,512	0	0	4,349,088	2,729,088
14	972,720	627,720	0	0	4,476,672	3,216,672
15	1,022,976	677,976	0	0	3,100,608	1,840,608
16	1,328,400	983,400	0	0	1,249,632	1,249,632
17	1,333,296	997,296	0	0	5,330,880	2,834,880
18	1,008,144	663,144	0	0	3,086,208	1,826,208
19	910,656	565,656	0	0	3,677,472	2,489,472
20	920,016	575,016	0	0	4,985,856	3,797,856
21	776,880	431,880	0	0	3,795,264	1,842,264
22	1,323,072	978,072	0	0	1,694,880	28,880
23	1,170,576	825,576	0	0	23,328	23,328
24	1,178,352	842,352	0	0	22,176	22,176
25	905,616	560,616	0	0	24,192	24,192
26	1,088,928	839,928	0	0	24,192	24,192
27	1,119,888	870,888	0	0	726,912	12,912
28	1,282,176	1,033,176	0	0	23,616	23,616
29	1,237,968	988,968	0	0	24,480	24,480
30	1,591,200	1,342,200	0	0	22,176	22,176
31	1,996,560	1,756,560	0	0	21,888	21,888
<b>Total</b>	<b>35,473,680</b>	<b>23,521,680</b>	<b>1,713,600</b>	<b>-14,400</b>	<b>53,993,952</b>	<b>35,705,952</b>

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Pumping Plant Energy Load Data**

(in kWh)

**March 2002**

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	6,712	17,176	44,010	42,264	44,748	833,616	830,448	1,796,832	6,462,720
2	4,858	12,080	34,326	31,536	34,668	1,152,144	1,156,248	2,589,984	9,635,040
3	6,162	15,576	43,326	41,166	45,342	968,184	1,069,200	2,413,440	8,772,480
4	8,268	20,144	34,236	32,454	35,316	827,496	879,264	1,955,232	7,237,440
5	9,898	26,608	39,456	36,486	39,978	825,120	904,680	2,013,696	7,248,240
6	7,668	20,144	34,884	32,274	35,208	904,824	932,328	2,047,104	7,365,600
7	4,364	10,840	35,370	34,272	36,450	507,240	478,872	1,027,584	3,684,240
8	4,358	10,624	31,122	30,204	32,472	937,440	977,184	2,158,848	7,908,480
9	5,446	14,528	31,446	29,772	32,022	1,252,944	1,359,288	3,026,304	10,936,800
10	4,330	10,472	35,460	32,940	35,604	1,593,360	1,769,688	4,003,200	14,554,080
11	4,978	12,464	30,726	29,520	31,950	748,080	840,528	1,908,576	6,963,120
12	8,206	21,264	46,908	43,758	47,214	785,016	898,632	1,961,568	7,059,600
13	12,242	31,176	41,904	39,942	42,624	867,456	980,640	2,135,808	7,400,880
14	15,922	45,288	52,902	49,536	52,866	929,304	956,664	2,068,128	7,595,280
15	14,760	39,656	39,456	37,116	39,924	887,328	946,008	2,078,496	7,645,680
16	15,720	41,272	39,636	37,188	41,184	1,415,304	1,486,512	3,331,008	12,191,040
17	7,922	20,640	41,238	38,592	42,318	1,306,368	1,433,304	3,162,528	11,700,720
18	11,620	28,360	39,762	39,006	40,554	875,736	1,027,584	2,276,352	7,960,320
19	25,312	67,360	45,072	43,092	46,188	1,014,264	1,088,208	2,368,800	8,721,360
20	31,872	91,248	73,458	69,120	72,882	506,664	503,136	1,066,176	3,663,360
21	26,502	71,536	68,382	64,638	68,436	659,592	498,816	1,106,496	3,660,480
22	23,446	67,776	65,538	62,892	66,672	1,125,864	1,167,624	2,578,464	9,315,360
23	11,158	29,976	53,856	51,210	54,036	1,470,744	1,517,472	3,363,264	12,287,520
24	9,092	24,912	73,170	69,336	70,758	1,343,592	1,532,016	3,472,992	12,654,000
25	17,178	48,800	70,992	68,490	70,560	1,211,184	1,313,496	2,901,888	10,534,320
26	20,082	56,568	71,460	66,060	71,226	1,200,672	1,298,016	2,921,184	10,696,320
27	18,928	50,256	71,262	69,156	71,352	1,216,368	1,349,208	2,980,224	10,638,720
28	18,950	51,784	85,860	80,514	83,682	1,254,816	1,305,792	2,903,040	10,642,320
29	13,156	35,560	84,222	79,236	81,720	1,227,384	1,363,320	3,025,728	10,884,240
30	11,604	30,024	73,512	70,128	73,638	1,381,536	1,480,824	3,287,232	12,154,320
31	7,938	18,848	32,382	29,934	32,130	1,450,944	1,580,904	3,559,104	13,129,920
<b>Total</b>	<b>388,652</b>	<b>1,042,960</b>	<b>1,565,334</b>	<b>1,481,832</b>	<b>1,573,722</b>	<b>32,680,584</b>	<b>34,925,904</b>	<b>77,489,280</b>	<b>281,304,000</b>

**Table 38. Southern Field Division Energy Data**

(in kWh)

**March 2002**

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	345,520	885,960	1,440,000	182,364	931,404	2,376,000	71,421
2	519,624	889,488	1,440,000	279,972	1,442,700	2,178,816	164,304
3	436,520	865,008	1,440,000	275,632	1,367,388	1,920,768	163,149
4	361,872	960,264	1,440,000	166,796	1,173,612	2,232,768	157,059
5	374,472	909,288	1,440,000	155,484	1,208,424	2,146,176	140,469
6	452,200	1,044,432	2,280,000	140,980	927,936	2,088,543	84,000
7	185,248	875,736	2,280,000	109,396	527,076	2,076,096	68,502
8	560,728	1,361,376	2,280,000	128,100	908,736	2,181,696	134,484
9	788,424	1,391,040	2,280,000	221,088	1,104,972	2,431,200	139,860
10	757,568	1,371,888	2,280,000	416,052	2,211,948	1,577,760	228,585
11	388,976	1,119,240	2,040,000	192,836	1,144,776	2,113,728	141,078
12	398,440	1,130,760	2,040,000	160,104	1,006,500	2,065,440	122,220
13	461,720	1,228,824	2,040,000	177,604	932,700	2,132,064	121,191
14	482,328	1,163,448	2,040,000	182,532	943,080	2,148,768	115,794
15	492,240	1,090,944	2,040,000	185,668	831,228	2,098,944	92,148
16	1,013,264	1,808,784	2,040,000	198,324	1,026,024	2,008,320	107,982
17	854,056	1,781,856	2,040,000	246,204	1,268,424	2,098,464	142,695
18	247,632	794,952	2,040,000	63,280	1,903,044	2,076,576	206,136
19	467,600	1,192,896	2,040,000	246,988	1,149,336	2,154,624	140,553
20	120,792	318,888	2,040,000	124,796	719,028	1,974,816	87,276
21	130,872	412,632	2,040,000	131,796	624,996	1,636,896	85,050
22	579,880	1,125,000	2,040,000	234,276	1,098,936	2,424,960	149,751
23	888,608	1,806,984	2,040,000	257,264	1,373,196	1,809,792	160,020
24	896,728	1,806,624	2,040,000	277,480	1,329,216	1,935,168	78,372
25	803,096	1,805,760	2,880,000	206,080	1,175,496	2,171,040	189,567
26	820,344	1,771,776	2,880,000	202,888	1,024,248	2,005,728	110,418
27	725,368	1,739,880	2,880,000	241,472	1,224,924	1,952,160	143,073
28	848,904	1,780,344	2,880,000	193,732	1,042,920	2,080,704	115,185
29	842,800	1,696,968	2,880,000	200,648	867,876	1,806,432	128,415
30	1,021,552	1,728,792	2,880,000	195,776	941,700	2,119,392	105,567
31	849,968	1,764,360	2,880,000	322,252	1,568,544	1,936,608	181,503
<b>Total</b>	<b>18,117,344</b>	<b>39,624,192</b>	<b>67,320,000</b>	<b>6,317,864</b>	<b>35,000,388</b>	<b>63,960,447</b>	<b>4,075,827</b>